

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

East 7/31/04

L Number	Hits	Search Text	DB	Time stamp
----------	------	-------------	----	------------

1	149	("4826258" "4840436" "4856852" "5013096" "4415210" "5586814" "4629258" "4761042" "4767165" "4586591" "4598955" "4783125" "4807942" "5700067" "5826953" "4362339" "4489989" "4592599" "4779937" "4805966" "4819997" "5013098" "4404803" "4440454" "4790608" "4819433" "4828336" "6106078" "6195993" "4033638" "4279447" "4457562" "4521061" "4523792" "4773224" "4810042" "4874207" "4898081" "4899640" "4900103" "4940290" "4971403" "4986613" "5024492" "5065580" "5027599" "5217281" "5816668" "6079797" "6079208").pn. ("6082109" "6179389" "6183050" "4964676" "4807944" "4492413" "4523791" "4900105" "5379868" "5669673" "4848853" "4955674" "5015045" "5040852" "5031968" "5178443" "5190358" "5209554" "5248091" "5312174" "5461760" "5624164" "5632535"	USPAT; US-PGPUB	2004/07/31 14:28
Search History 7/31/04 2:54:09 PM Page 2 C:\APPS\least\workspaces\100617604.wsp 5624164 "5632535"				

2	0	US20040080207A1	USPAT; US-PGPUB	2004/07/31 14:25
3	1	"20040080207"	USPAT; US-PGPUB	2004/07/31 14:25
4	1	"20040080207" and restrictor	USPAT; US-PGPUB	2004/07/31 14:25

5	44	("4826258" "4840436" "4856852" "5013096" "4415210" "5586814" "4629258" "4761042" "4767165" "4586591" "4598955" "4783125" "4807942" "5700067" "5826953" "4362339" "4489989" "4592599" "4779937" "4805966" "4819997" "5013098" "4404803" "4440454" "4790608" "4819433" "4828336" "6106078" "6195993" "4033638" "4279447" "4457562" "4521061" "4523792" "4773224" "4810042" "4874207" "4898081" "4899640" "4900103" "4940290" "4971403" "4986613" "5024492" "5065580" "5027599" "5217281" "5816668" "6079797" "6079208").pn. ("6082109" "6179389" "6183050" "4964676" "4807944" "4492413" "4523791" "4900105" "5379868" "5669673" "4848853" "4955674" "5015045" "5040852" "5031968" "5178443" "5190358" "5209554" "5248111" "5312174" "5624164" "5632535"	USPAT; US-PGPUB	2004/07/31 14:38
---	----	---	--------------------	------------------

6	9	Hashida.in. and Arakawa.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 14:47
7	14097	Hashida.in. or Arakawa.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 14:48
8	275	(Hashida.in. or Arakawa.in.) and brak\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 14:48
9	34	(Hashida.in. or Arakawa.in.) and brak\$ with (generator or booster)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 14:50
10	831	brak\$ with (generator or booster) with (fail\$ or malfunction or defect\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 14:50
-	2	(("4489555") or ("6652040")).PN.	USPAT; US-PGPUB	2004/07/31 14:22
-	2	(("6454061") or ("6612410")).PN.	USPAT; US-PGPUB	2004/07/30 13:31
-	3	6454061.URPN.	USPAT	2004/07/30 13:31
-	49	("0004442" "0068748" "0139346" "0259634" "0269020" "0277550" "0523239" "0538003" "0788931" "1192354" "1544850" "1553804" "1565658" "1596444" "1903775" "2172346" "2332520" "2467276" "2496323" "2682256" "2717058" "2891789" "2904074" "2917305" "3052328" "3093117" "3100635" "3107753" "3113767" "3136225" "3147967" "3848414" "3889934" "3979790" "4059175" "4455923" "4500075" "4700611" "4759260" "4790518" "4834088" "5069317" "5157806" "5558190" "5727440" "5775677" "6044752" "6068245" "6202536").PN.	USPAT USPAT	2004/07/30 13:32
-	3	6454061.URPN.	USPAT	2004/07/30 13:32
-	0	("deadj210244858").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/30 13:38
-	0	de adj2 "10244858"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/30 13:38
-	8	klitsch.in. and brehm.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/30 13:39
-	1	2004-271967.NRAN.	DERWENT	2004/07/30 13:40

PLUS

7/31/04

Butler, Douglas

From: PLUS
Sent: Friday, July 30, 2004 12:52 PM
To: Butler, Douglas
Subject: PLUS Results for 10687604

Here are the PLUS search results for 10687604.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10687604_QUAL.txt



10687604_LIST.txt



10687604_WEST.txt



10687604_EAST.txt



10687604.east



10687604_CLS.txt



10687604_CLSTITLES.1



10687604_WDS.txt

xi

10687604_LIST

10687604

PLUS Search Results for S/N 10687604, Searched July 30, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

4826258	6082109	4483144
4840436	6179389	4534172
4856852	6183050	4832418
5013096	4964676	4890891
4415210	4807944	4950027
5586814	4492413	5178440
4629258	4523791	5186524
4761042	4900105	5219442
4767165	5379868	5273348
4586591	5669673	5350224
4598955	4848853	5433514
4783125	4955674	4289359
4807942	5015045	4433543
5700067	5040852	4443040
5826953	5031968	4463562
4362339	5178443	4474004
4489989	5190358	4505114
4592599	5209554	4754605
4779937	5281012	4804236
4805966	5312174	4826255
4819997	5624164	4831826
5013098	5632535	4861117
4404803	5865213	4876853
4440454	5882093	4891945
4790608	5951119	4932727
4819433	5951115	5005350
4828336	6050654	5005918
6106078	6053582	5015044
6195993	6070954	5288142
4033638	6199964	5332302
4279447	6206484	5372409
4457562	6217129	5493949
4521061	6217129	5549366
4523792	4509802	5927824
4773224	6010198	6027178
4810042	4824182	6079799
4874207	5014514	6109703
4898081	6164731	6205783
4899640	5195419	6244049
4900103	5722744	4313302
4940290	4330996	4339921
4971403	4923256	4341076
4986613	6161903	4354716
5024492	4400943	4395072
5065580	4508008	4444440
5027599	4759591	4466246
5217281	4922120	4787685
5816668	5201573	4824187
6079797	5911484	4838622

6079208 4400942 4898430

10687604_LIST

10687604_EAST

(4826258
4840436
4856852
5013096
4415210
5586814
4629258
4761042
4767165
4586591
4598955
4783125
4807942
5700067
5826953
4362339
4489989
4592599
4779937
4805966
4819997
5013098
4404803
4440454
4790608
4819433
4828336
6106078
6195993
4033638
4279447
4457562
4521061
4523792
4773224
4810042
4874207
4898081
4899640
4900103
4940290
4971403
4986613
5024492
5065580
5027599
5217281
5816668
6079797
6079208).pn.
(6082109
6179389
6183050
4964676
4807944
4492413
4523791
4900105
5379868

10687604_EAST

5669673
4848853
4955674
5015045
5040852
5031968
5178443
5190358
5209554
5281012
5312174
5624164
5632535
5865213
5882093
5951119
5951115
6050654
6053582
6070954
6199964
6206484
6217129
6217129
4509802
6010198
4824182
5014514
6164731
5195419
5722744
4330996
4923256
6161903
4400943
4508008
4759591
4922120
5201573
5911484
4400942) .pn.
(4483144
4534172
4832418
4890891
4950027
5178440
5186524
5219442
5273348
5350224
5433514
4289359
4433543
4443040
4463562
4474004
4505114
4754605

10687604__EAST

4804236
4826255
4831826
4861117
4876853
4891945
4932727
5005350
5005918
5015044
5288142
5332302
5372409
5493949
5549366
5927824
6027178
6079799
6109703
6205783
6244049
4313302
4339921
4341076
4354716
4395072
4444440
4466246
4787685
4824187
4838622
4898430) .pn.

10687604_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10687604 on July 30, 2004

Original Classifications

16	303/114.1
13	60/547.1
8	303/113.2
8	303/113.3
7	303/114.3
7	303/116.1
6	303/122.13
5	303/113.4
5	303/115.4
3	60/553
3	303/11
3	303/116.2
2	60/554
2	60/578
2	303/10
2	303/122.1
2	303/122.11
2	303/152
2	303/2
2	303/50
2	303/52

Cross-Reference Classifications

18	303/114.1
15	60/547.1
15	303/116.1
13	188/358
13	303/113.4
12	303/10
12	303/119.1
10	60/562
10	303/115.4
9	188/345
8	303/116.2
8	303/119.2
8	303/DIG 4
7	60/563
7	303/113.5
6	60/545
6	60/581
6	303/113.2
6	303/122.13
5	60/582
5	60/589
5	60/591
5	91/376R
5	303/3
5	303/901
5	303/DIG 11
4	91/369.2
4	188/356
4	303/114.3
4	303/50
4	303/DIG 3

3 60/548
3 60/593
3 91/369.1
3 91/460
3 188/359
3 303/113.1
3 303/115.2
3 303/13
3 303/52
3 303/6.01
3 303/900
3 303/DIG 2
2 60/550
2 60/555
2 60/560
2 60/565
2 60/566
2 60/574
2 60/585
2 60/588
2 91/378
2 91/391R
2 92/13
2 92/13.41
2 92/98D
2 188/156
2 188/DIG 2
2 303/11
2 303/112
2 303/113.3
2 303/114.2
2 303/117.1
2 303/122.01
2 303/122.09
2 303/122.14
2 303/166
2 303/186
2 303/191
2 303/2
2 303/61
2 303/87
2 303/9.61
2 303/9.62

Combined Classifications

34 303/114.1
28 60/547.1
22 303/116.1
18 303/113.4
15 303/115.4
14 188/358
14 303/10
14 303/113.2
13 303/119.1
12 303/122.13
11 60/562
11 303/114.3
11 303/116.2
10 303/113.3

9 188/345
9 303/119.2
8 303/113.5
8 303/DIG 4
7 60/545
7 60/563
7 60/581
6 60/582
6 60/589
6 91/376R
6 303/3
6 303/50
5 60/591
5 91/369.2
5 303/11
5 303/52
5 303/901
5 303/DIG 11
4 60/548
4 60/553
4 188/356
4 303/113.1
4 303/13
4 303/2
4 303/6.01
4 303/DIG 3
3 60/555
3 60/593
3 91/369.1
3 91/460
3 188/359
3 303/115.2
3 303/117.1
3 303/122.09
3 303/122.11
3 303/122.14
3 303/152
3 303/186
3 303/9.62
3 303/900
3 303/DIG 2
2 60/550
2 60/554
2 60/560
2 60/565
2 60/566
2 60/574
2 60/578
2 60/585
2 60/588
2 91/378
2 91/391R
2 92/13
2 92/13.41
2 92/98D
2 188/156
2 188/DIG 2
2 303/112
2 303/114.2

10687604_CLS

2 303/115.1
2 303/116.4
2 303/122.01
2 303/122.08
2 303/122.1
2 303/139
2 303/15
2 303/155
2 303/166
2 303/191
2 303/61
2 303/84.2
2 303/87
2 303/9.61
2 303/9.71

10687604_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10687604 on July 30, 2004

- 34 303/114.1 (16 OR, 18 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/113.1 .Having a valve system responsive to a wheel lock signal
 - 303/114.1 ..Including hydraulic power booster
- 28 60/547.1 (13 OR, 15 XR)
 - Class 060 : POWER PLANTS
 - 60/325 PRESSURE FLUID SOURCE AND MOTOR
 - 60/533 .Pulsator
 - 60/547.1 ..With control of or by a separate power fluid, etc.
- 22 303/116.1 (7 OR, 15 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/113.1 .Having a valve system responsive to a wheel lock signal
 - 303/116.1 ..Including pump with system solenoid valve
- 18 303/113.4 (5 OR, 13 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/113.1 .Having a valve system responsive to a wheel lock signal
 - 303/113.4 ..Including a stroke sensor
- 15 303/115.4 (5 OR, 10 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/113.1 .Having a valve system responsive to a wheel lock signal
 - 303/115.1 ..System controlled by expansible chamber type modulator
 - 303/115.4 ...Having pump pressure control
- 14 188/358 (1 OR, 13 XR)
 - Class 188 : BRAKES
 - 188/381 FRICTIONAL VIBRATION DAMPER
 - 188/151R .Fluid pressure
 - 188/152 ..Road vehicle
 - 188/355 ...With nonmanual fluid-power source
 - 188/358Liquid power
- 14 303/10 (2 OR, 12 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/10 WITH PUMP
- 14 303/113.2 (8 OR, 6 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/113.1 .Having a valve system responsive to a wheel lock signal
 - 303/113.2 ..With traction control

10687604_CLSTITLES

- 13 303/119.1 (1 OR, 12 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/113.1 .Having a valve system responsive to a wheel lock signal
 - 303/119.1 ..System controlled by solenoid valve
- 12 303/122.13 (6 OR, 6 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/122 .With failure responsive means
 - 303/122.09 ..Pressure failure
 - 303/122.13 ...Auxiliary pressure failure
- 11 60/562 (1 OR, 10 XR)
 - Class 060 : POWER PLANTS
 - 60/325 PRESSURE FLUID SOURCE AND MOTOR
 - 60/533 .Pulsator
 - 60/562 ..Master piston of one pulsator circuit drives master piston of a parallel circuit through a resilient, fluid or lost motion connection
- 11 303/114.3 (7 OR, 4 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/113.1 .Having a valve system responsive to a wheel lock signal
 - 303/114.3 ..Including pneumatic power booster
- 11 303/116.2 (3 OR, 8 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/113.1 .Having a valve system responsive to a wheel lock signal
 - 303/116.1 ..Including pump with system solenoid valve
 - 303/116.2 ...Having pressure line isolated from master cylinder line
- 10 303/113.3 (8 OR, 2 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/113.1 .Having a valve system responsive to a wheel lock signal
 - 303/113.2 ..With traction control
 - 303/113.3 ...Including booster
- 9 188/345 (0 OR, 9 XR)
 - Class 188 : BRAKES
 - 188/381 FRICTIONAL VIBRATION DAMPER
 - 188/151R .Fluid pressure
 - 188/152 ..Road vehicle
 - 188/345 ...With multiple master cylinders
- 9 303/119.2 (1 OR, 8 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/113.1 .Having a valve system responsive to a wheel lock signal

10687604_CLSTITLES

303/119.1 ..System controlled by solenoid valve
303/119.2 ...System solenoid valve detail

8 303/113.5 (1 OR, 7 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/113.1 .Having a valve system responsive to a wheel
lock signal
303/113.5 ..With system apportioning control

8 303/DIG 4 (0 OR, 8 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/DIG 2 BRAKE CONTROL BY PRESSURE COMPARISON
303/DIG 3 .Electrical pressure sensor
303/DIG 4 ..Pressure signal used in electrical speed
controlled braking circuit

7 60/545 (1 OR, 6 XR)
Class 060 : POWER PLANTS
60/325 PRESSURE FLUID SOURCE AND MOTOR
60/533 .Pulsator
60/545 ..Having electricity or magnetically operated
structure

7 60/563 (0 OR, 7 XR)
Class 060 : POWER PLANTS
60/325 PRESSURE FLUID SOURCE AND MOTOR
60/533 .Pulsator
60/563 ..Expansible chamber of output pressurized
directly by motive fluid and indirectly by a master drive
n by the motive fluid

7 60/581 (1 OR, 6 XR)
Class 060 : POWER PLANTS
60/325 PRESSURE FLUID SOURCE AND MOTOR
60/533 .Pulsator
60/581 ..Plural structurally related master pistons,
cylinders or pulsator circuits

6 60/582 (1 OR, 5 XR)
Class 060 : POWER PLANTS
60/325 PRESSURE FLUID SOURCE AND MOTOR
60/533 .Pulsator
60/582 ..Having safety standby structure becoming
operative upon apparatus malfunction

6 60/589 (1 OR, 5 XR)
Class 060 : POWER PLANTS
60/325 PRESSURE FLUID SOURCE AND MOTOR
60/533 .Pulsator
60/585 ..Holder for reserve liquid feeds master
60/589 ...Master piston or its actuator mechanically
operates valve between holder and master cylinder

6 91/376R (1 OR, 5 XR)
Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE
FLUID CONTROL

10687604_CLSTITLES

- 91/368 .Follower type
 91/374 ..Plural movable valve parts
 91/376R ...One movable part unitary with working member
- 6 303/3 (1 OR, 5 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/2 MULTIPLE SYSTEMS
 303/3 .Fluid pressure and electric
- 6 303/50 (2 OR, 4 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/50 MOTORMAN'S VALVES
- 5 60/591 (0 OR, 5 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/591 ..Having valve, director, or restrictor in
 pulse fluid flow path
- 5 91/369.2 (1 OR, 4 XR)
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
 91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE
 FLUID CONTROL
 91/368 .Follower type
 91/369.1 ..With relatively movable working and output
 members reacting on input member
 91/369.2 ...Rubber block reaction means
- 5 303/11 (3 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/10 WITH PUMP
 303/11 .Pressure control
- 5 303/52 (2 OR, 3 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/50 MOTORMAN'S VALVES
 303/52 .Multiple motors
- 5 303/901 (0 OR, 5 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/901 ABS CHECK VALVE DETAIL
- 5 303/DIG 11 (0 OR, 5 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/DIG 11 ACCUMULATOR
- 4 60/548 (1 OR, 3 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/547.1 ..With control of or by a separate power fluid,
 etc.
 60/548 ...Flow in recirculating circuit controlled
- 4 60/553 (3 OR, 1 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR

10687604_CLSTITLES

- 60/533 .Pulsator
- 60/547.1 ..With control of or by a separate power fluid,
etc.
- 60/552 ...Mechanical feedback to manual control
controls power fluid to establish position of working
member of master
- 60/553With distinct piston or diaphragm exposed
to pulsator pressure imparting feel to manual control
- 4 188/356 (0 OR, 4 XR)
Class 188 : BRAKES
- 188/381 FRICTIONAL VIBRATION DAMPER
- 188/151R .Fluid pressure
- 188/152 ..Road vehicle
- 188/355 ...With nonmanual fluid-power source
- 188/356Vacuum power
- 4 303/113.1 (1 OR, 3 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/121 SPEED-CONTROLLED
- 303/113.1 .Having a valve system responsive to a wheel
lock signal
- 4 303/13 (1 OR, 3 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/13 MULTIPLE CONTROL
- 4 303/2 (2 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/2 MULTIPLE SYSTEMS
- 4 303/6.01 (1 OR, 3 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/5 MULTIPLE FLUID-RECEIVING DEVICES
- 303/6.01 .Multiple motors
- 4 303/DIG 3 (0 OR, 4 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/DIG 2 BRAKE CONTROL BY PRESSURE COMPARISON
- 303/DIG 3 .Electrical pressure sensor
- 3 60/555 (1 OR, 2 XR)
Class 060 : POWER PLANTS
- 60/325 PRESSURE FLUID SOURCE AND MOTOR
- 60/533 .Pulsator
- 60/547.1 ..With control of or by a separate power fluid,
etc.
- 60/555 ...Master movement of master produces a
pressure that controls the power fluid
- 3 60/593 (0 OR, 3 XR)
Class 060 : POWER PLANTS
- 60/325 PRESSURE FLUID SOURCE AND MOTOR
- 60/533 .Pulsator
- 60/593 ..Having fluid motor driving piston of master
unit
- 3 91/369.1 (0 OR, 3 XR)
Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE

10687604_CLSTITLES

- 91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE
FLUID CONTROL
- 91/368 .Follower type
- 91/369.1 ..With relatively movable working and output
members reacting on input member

- 3 91/460 (0 OR, 3 XR)
Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
- 91/418 WITH MOTIVE FLUID VALVE
- 91/460 .Pulsator actuator for valve (280)

- 3 188/359 (0 OR, 3 XR)
Class 188 : BRAKES
- 188/381 FRICTIONAL VIBRATION DAMPER
- 188/151R .Fluid pressure
- 188/152 ..Road vehicle
- 188/355 ...With nonmanual fluid-power source
- 188/358Liquid power
- 188/359And manual

- 3 303/115.2 (0 OR, 3 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/121 SPEED-CONTROLLED
- 303/113.1 .Having a valve system responsive to a wheel
lock signal
- 303/115.1 ..System controlled by expansible chamber type
modulator
- 303/115.2 ...Having electric control

- 3 303/117.1 (1 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/121 SPEED-CONTROLLED
- 303/113.1 .Having a valve system responsive to a wheel
lock signal
- 303/117.1 ..Spool valve

- 3 303/122.09 (1 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/121 SPEED-CONTROLLED
- 303/122 .With failure responsive means
- 303/122.09 ..Pressure failure

- 3 303/122.11 (2 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/121 SPEED-CONTROLLED
- 303/122 .With failure responsive means
- 303/122.09 ..Pressure failure
- 303/122.11 ...Detected via stroke sensor

- 3 303/122.14 (1 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/121 SPEED-CONTROLLED
- 303/122 .With failure responsive means
- 303/122.09 ..Pressure failure
- 303/122.13 ...Auxiliary pressure failure
- 303/122.14With warning

- 3 303/152 (2 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS

10687604_CLSTITLES

303/121 SPEED-CONTROLLED
303/152 .Regenerative brakes

3 303/186 (1 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/186 .Front-rear axle apportioning or speed
difference

3 303/9.62 (1 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/5 MULTIPLE FLUID-RECEIVING DEVICES
303/6.01 .Multiple motors
303/9.62 ..Apportioning control

3 303/900 (0 OR, 3 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/900 ABS THROTTLE CONTROL

3 303/DIG 2 (0 OR, 3 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/DIG 2 BRAKE CONTROL BY PRESSURE COMPARISON

2 60/550 (0 OR, 2 XR)
Class 060 : POWER PLANTS
60/325 PRESSURE FLUID SOURCE AND MOTOR
60/533 .Pulsator
60/547.1 ..With control of or by a separate power fluid,
etc.
60/550 ...Master driven by manual power control lever
on power failure and having means adjusting lever throw o
r
master resistance responsive to failure of power fluid
supply

2 60/554 (2 OR, 0 XR)
Class 060 : POWER PLANTS
60/325 PRESSURE FLUID SOURCE AND MOTOR
60/533 .Pulsator
60/547.1 ..With control of or by a separate power fluid,
etc.
60/552 ...Mechanical feedback to manual control
controls power fluid to establish position of working
member of master
60/554Having load deformable means between master
working member and motor thrust means adjusting bias of
manual control

2 60/560 (0 OR, 2 XR)
Class 060 : POWER PLANTS
60/325 PRESSURE FLUID SOURCE AND MOTOR
60/533 .Pulsator
60/547.1 ..With control of or by a separate power fluid,
etc.
60/560 ...Power fluid also fed into a separate
expansible chamber directly driving output means

2 60/565 (0 OR, 2 XR)
Class 060 : POWER PLANTS

10687604_CLSTITLES

	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/565	..Master and diverse non-pulsator drive of output member or members
2	60/566	(0 OR, 2 XR)
	Class	060 : POWER PLANTS
	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/565	..Master and diverse non-pulsator drive of output member or members
	60/566	...Manual master and alternate nonmanual pressure fluid source feed output motor
2	60/574	(0 OR, 2 XR)
	Class	060 : POWER PLANTS
	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/574	..Automatic control of plural stage pressure generation or utilization
2	60/578	(2 OR, 0 XR)
	Class	060 : POWER PLANTS
	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/574	..Automatic control of plural stage pressure generation or utilization
	60/578	...Unitarily movable displacer delivers fluid from two delivery chambers, one chamber being ineffective under high pressure delivery
2	60/585	(0 OR, 2 XR)
	Class	060 : POWER PLANTS
	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/585	..Holder for reserve liquid feeds master
2	60/588	(0 OR, 2 XR)
	Class	060 : POWER PLANTS
	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/585	..Holder for reserve liquid feeds master
	60/588	...Master piston traps liquid on advance across a feed port in cylinder wall
2	91/378	(0 OR, 2 XR)
	Class	091 : MOTORS: EXPANSIBLE CHAMBER TYPE
	91/358R	WORKING MEMBER POSITION FEEDBACK TO MOTIVE FLUID CONTROL
	91/368	.Follower type
	91/374	..Plural movable valve parts
	91/376R	...One movable part unitary with working member
	91/378Axially movable spool-type valve
2	91/391R	(0 OR, 2 XR)
	Class	091 : MOTORS: EXPANSIBLE CHAMBER TYPE
	91/391R	WITH ALTERNATIVE MANUAL ACTUATION OF LOAD

10687604_CLSTITLES

2 92/13 (0 OR, 2 XR)
 Class 092 : EXPANSIBLE CHAMBER DEVICES
 92/12.1 DISPLACEMENT CONTROL OF PLURAL CYLINDERS
 ITH ARRANGED IN PARALLEL, RADIAL, OR CONICAL RELATIONSHIP W
 ROTARY TRANSMISSION AXIS
 92/12.2 .Parallel cylinders
 92/13 ..WITH ADJUSTABLE MEANS TO VARY STROKE OF
 WORKING MEMBER

2 92/13.41 (0 OR, 2 XR)
 Class 092 : EXPANSIBLE CHAMBER DEVICES
 92/12.1 DISPLACEMENT CONTROL OF PLURAL CYLINDERS
 ITH ARRANGED IN PARALLEL, RADIAL, OR CONICAL RELATIONSHIP W
 ROTARY TRANSMISSION AXIS
 92/13.4 .Predetermined discrete incremental adjustment
 positions
 92/13.41 ..Adjustment by assembly or disassembly

2 92/98D (0 OR, 2 XR)
 Class 092 : EXPANSIBLE CHAMBER DEVICES
 92/89 COLLAPSIBLE CHAMBER WALL PORTION (E.G., HINGED
 OR FLEXIBLE WALL)
 92/90 .Wall portion formed of flexible material
 92/96 ..Diaphragm type
 92/98R ...Entire periphery secured to rigid working
 chamber forming wall
 92/98DRolling diaphragm

2 188/156 (0 OR, 2 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/156 .Electric and mechanical

2 188/DIG 2 (0 OR, 2 XR)
 Class 188 : BRAKES
 188/DIG 2 HILL HOLDER

2 303/112 (0 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/112 .Torque sensing

2 303/114.2 (0 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 .Having a valve system responsive to a wheel
 lock signal
 303/114.1 ..Including hydraulic power booster
 303/114.2 ...Parallel boosters

2 303/115.1 (1 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 .Having a valve system responsive to a wheel
 lock signal
 303/115.1 ..System controlled by expansible chamber type
 modulator

10687604_CLSTITLES

- 2 303/116.4 (1 OR, 1 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/113.1 .Having a valve system responsive to a wheel lock signal
 - 303/116.4 ..System pump structure detail
- 2 303/122.01 (0 OR, 2 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/122 .With failure responsive means
 - 303/122.01 ..Traction failure
- 2 303/122.08 (1 OR, 1 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/122 .With failure responsive means
 - 303/122.08 ..Active circuit testing
- 2 303/122.1 (2 OR, 0 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/122 .With failure responsive means
 - 303/122.09 ..Pressure failure
 - 303/122.1 ...With warning
- 2 303/139 (1 OR, 1 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/139 .And traction control
- 2 303/15 (1 OR, 1 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/13 MULTIPLE CONTROL
 - 303/15 .Fluid and electric
- 2 303/155 (1 OR, 1 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/155 .Braking pressure demand or braking force desire
- 2 303/166 (0 OR, 2 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/166 .Wheel speed sensor and braking pressure sensor
- 2 303/191 (0 OR, 2 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/191 .Odd condition or device detection (e.g., fluid or brake temperature, hill holder, anti-squeal controller acoustic emission)
- 2 303/61 (0 OR, 2 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS

10687604_CLSTITLES

- 303/50 MOTORMAN'S VALVES
303/61 .Intermittent
- 2 303/84.2 (1 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/84.1 FLOW RETARDER
 303/84.2 .Isolation valve
- 2 303/87 (0 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/87 PULSATION NEUTRALIZERS
- 2 303/9.61 (0 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 ..Multiple motors
 303/9.61 ..Separate and simultaneous control
- 2 303/9.71 (1 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 ..Multiple motors
 303/9.62 ..Apportioning control
 303/9.71 ...Having significant pressure control by front
 brake